surface water conditions. Area of old landslide probably includes recent ones not identified from field evidence or otherwise documented. Upslope boundary of landslide generally defined by modified scarp, but downslope (toe) may be gradational and not well defined. Questioned where doubtful.



COMBINATION LANDSLIDE Area of recent and old slides in which individual slides are not identified.



COLLUVIAL SLOPE

Valley wall along major streams with slope as steep as 40° (85%); stony, clayey silt soll up to 50 ft. (15 m) thick; commonly buttressed by a terrace or bench at the toe of the slope; very susceptible to sliding by cutting of toe area, removal of terrace or bench, and overloading; slide commonly activated without apparent cause.

formed dominantly of sandstone, limestone, sandy shale, mudstone and claystone. Interbedded mudstone, claystone and shale weather rapidly leaving

sandstone and limestone rock faces unsupported.



SOIL AND ROCK SUSCEPTIBLE TO LANDSLIDING Soil and rock similar to that involved in landslides elsewhere in map area; primarily areas underlain by claystone, mudstone and shale associated with other rock types. Rock weathers rapidly on exposure forming clayey soil highly susceptible to sliding. Includes coves (U-shaped, shallow valleys) containing thick layers of clayey soil that are very susceptible to sliding where excavation breaks continuity of slope and where overloaded by artificial fill.

AREAS LEAST PRONE TO LANDSLIDES Map areas in which no patterns or symbols are shown; primarily valley floors, ridge tops and broad benches; modification by excavation and fill may lead to local landslides.

The first five digits of the open file number designate the specific 1:250,000 scale map sheet of which this quadrangle is a part. The last two digits designate the position of the quadrangle in a subdivision of the 1:250,000 scale map based on rows and tiers shown in the diagram to the right. The

location of this quadrangle is shown by the black square.

rbb burnt

rbd burning

rbs **s**ludg**e**

Quarries

quarry site spoil bank, quarry waste qub

Gravel pits

site of gravel pit Slides in man-made features earth flow in fill

Columbia 1º X 2º Sheet

